PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF VIDEO DETECTION AT THE INTERSECTION OF MD 424 (DAVIDSONVILLE ROAD) AND UNDERWOOD ROAD/CARDINAL CREST ROAD IN ANNE ARUNDEL COUNTY. NEW LED TRAFFIC SIGNAL HEADS WILL REPLACE THE EXISTING TRAFFIC SIGNAL HEADS. THE EXISTING BLACK FACED TRAFFIC SIGNAL HEADS WILL BE UPGRADED WITH LED SIGNAL MODULES. PRESENCE LOOP DETECTORS WILL BE REPLACED WITH VIDEO DETECTION. MD 424 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

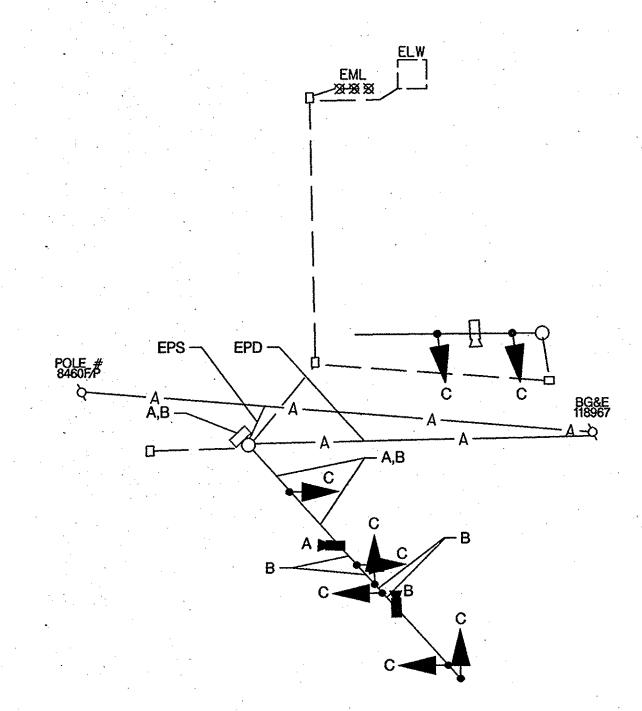
INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH CONCURRENT MAINLINE AND SIDESTREET SPLIT PHASE OPERATION.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CONTROLLER SHALL REMAIN.

WIRING DIAGRAM



A CONTROL CABLE, 500 FT. VIDEO B DETECTION CAMERA TO CONTROLLER

C -USE EXISTING WIRING

EPS - EXISTING POWER SERVICE

ELW - EXISTING LOOP WIRE

EML - EXISTING MICRO-LOOP PROBES

EPD - EXISTING PHONE DROP

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS: Ms. Kimberly Tran Assistant District Engineer - Traffic Phone: 410-841-1019

Mr. John Mays Assistant District Engineer - Utility Phone: 410-841-1039

Mr. Andre Furtell Assistant District Engineer - Maintenance Phone: 410-841-1013

Mr. Richard L. Daff Chief, Traffic Operations Division Phone: 410-787-7630

Mr. Edward Rodenhizer Chief, Signal Operations Division Phone: 410-787-7650

The Power Company Representative is: Baltimore Gas and Electric Company 7317 Parkway Drive South Hanover, Maryland 21076 Phone: 410-859-9062

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ITEM NO	QUANTITY	DESCRIPTION
9570	36 SF	(UPDATED) SHEET ALUMINIUM GROUND MOUNTED SIGN:
· ·		I EA - ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 424, LEFT ARROW" (48 IN. X 75 IN.)
		I EA - ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 424, RIGHT ARROW" (30 IN. X 51 IN.)
9571	36 SF	[UPDATED] SHEET ALUMINIUM MAST ARM/POLE MOUNTED SIGN:
		I EA - ASSOCIATED SHIELD ASSEMBLY NORTH, MD 424, RIGHT ARROW (30 IN. X 51 IN.)
		I EA - ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 424, LEFT ARROW" (48 IN. X 75 IN.)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

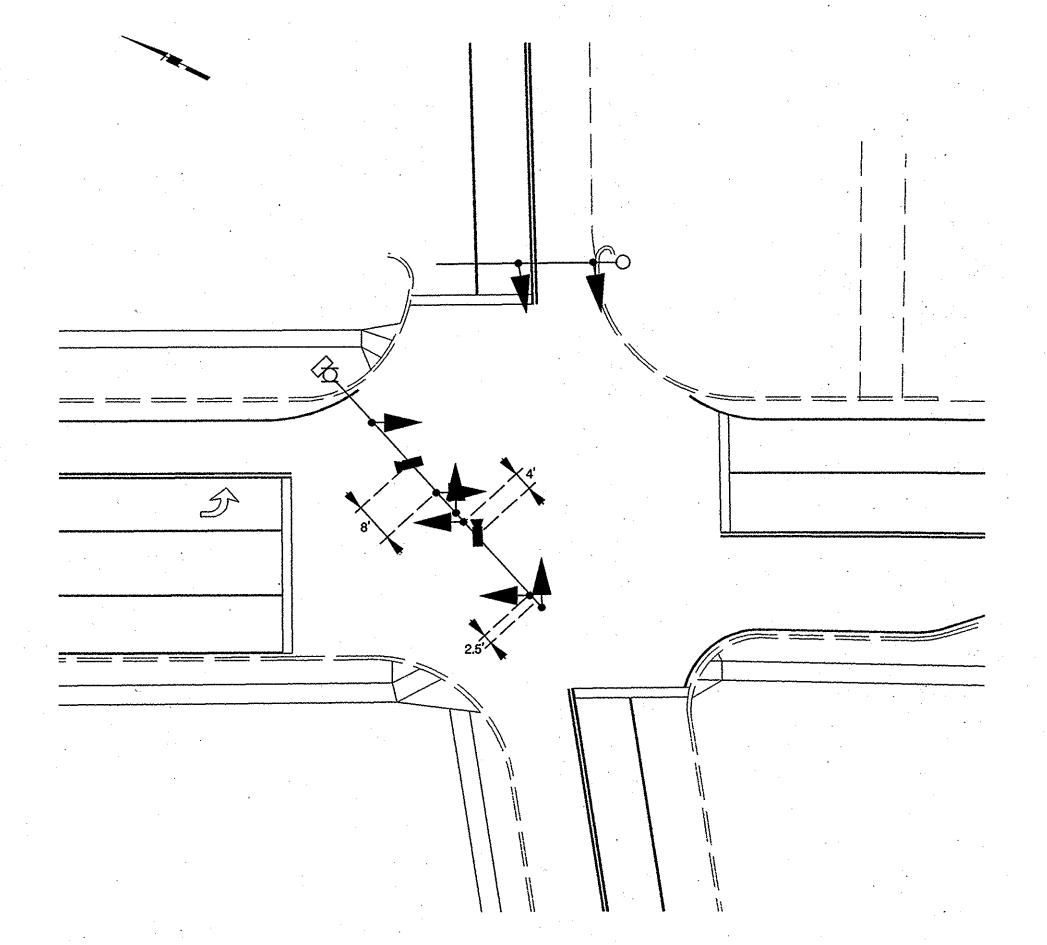
ITEM NO

<u>QUANTITY</u>

DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PROPOSED VIDEO DETECTION CAMERA LAYOUT



PHASE CHART

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

DESCRIPTION

MAINTENANCE OF TRAFFIC

12 INCH LED SIGNAL HEAD SECTION

LED SIGNAL HEAD MODULES (ANY SIZE)

WOOD SIGN SUPPORTS UP TO 4 X 6

REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT

INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)

VIDEO DETECTION CAMERA & CABLE UP TO 500 FOOT

QUANTITY

I EA

12 EA

14 EA

I EA

2 EA

40 LF

72 SF

ITEM NO

1001

1008

8015

8022

8026

8037

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PHASE 2 & 6	G	G	G	G	R .	R	R	R		-
PHASE 2 & 6 CHANGE	Y	Υ	Υ	. Y	R	R	R	R		
PHASE 3	R	R	R	R,	- G - G	G	R	R	I	- † -
PHASE 3 CHANGE	R	R	R	R	Y	Y	R	R	Η ,	
PHASE 4	R	R	R	R	R	R	-6- 6	G		-
PHASE 4 CHANGE	R	R	R	R	R	R	Υ	Y	Н	ļ —
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	ţ	-

SHA

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 424 (DAVIDSONVILLE ROAD) AND UNDERWOOD ROAD / CARDINAL CREST DRIVE

GEN	NERAL	INF	ORM	ΔΤΙΩ	N
GEI	AEVWT	IIAL		AIIU	14

DESIGNED BY	VGN	COUNTY	ANNE ARUNDEL
DRAWN BY	VGN	LOGMILE	02042406,03
CHECKED BY	BAB CSW	T.I.M.S. NO.	H884
F.A.P. NO	· · · · · · · · · · · · · · · · · · ·	TOD NO.	

STV Incorporated

engineers /architects /planners /construction managers

S. Ampassador Road Baltimore MD 21244-2722 (410) 944-911

PLOTTED: Friday, December 22, 2006 AT 08:57 AM FILE: I:\PROJECTS\0312513\0312513\0040\Drawings\TRA\Underwood\pSG-N001_md424.dgm